ABSTRACT

1   Multiple output streams of video and/or audio data are simultaneously

2   generated from a large scale memory buffer array and sent to one or more customer

3   devices for playback. The data is sent over networks, which use one or more

4   protocols for data communication. Thus, for each network, a transport protocol stack

5   is generated. The transport protocol stack is generated in hardware, thus greatly

6   improving the throughput, and increasing the number of streams that can be generated.

7   A wide data bus and wide address bus can be utilized because the protocol stack is

8   generated in hardware, so that higher throughput can be achieved from the large scale

9   memory buffer array. A plurality of protocol stack generators can have access to the

10   same block of memory, allowing many output streams to be generated from a single

11   copy of content in the large scale memory buffer array.